§ 60.442

C_{Ik}=the concentration of VOC (carbon equivalent) in each gas stream (k) emitted directly to the atmosphere, in parts per million by volume.

G=the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month.

 $M_{\rm ci} {=} {\rm the}\ total\ mass\ (kg)$ of each coating (i) applied during the calendar month as determined from facility records.

 M_r =the total mass (kg) of solvent recovered for a calendar month.

 Q_{aj} =the volumetric flow rate of each effluent gas stream (j) exiting the emission control device, in dry standard cubic meters per hour.

 Q_{bi} =the volumetric flow rate of each effluent gas stream (i) entering the emission control device, in dry standard cubic meters per hour.

 Q_{lk} =the volumetric flow rate of each effluent gas stream (k) emitted to the atmosphere, in dry standard cubic meters per hour.

R=the overall VOC emission reduction achieved for a calendar month (in percent). $R_{\rm q}{=}{\rm the\ required\ overall\ VOC\ emission\ reduction\ (in\ percent).}$

 $\begin{aligned} W_{oi}\text{=}\text{the weight fraction of organics applied} \\ \text{of each coating (i) applied during a calendar month as determined from Method 24} \\ \text{or coating manufacturer's formulation} \\ \text{data}. \end{aligned}$

W_{si}=the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data.

[48 FR 48375, Oct. 18, 1983, as amended at 65 FR 61761, Oct. 17, 2000]

§ 60.442 Standard for volatile organic compounds.

- (a) On and after the date on which the performance test required by §60.8 has been completed each owner or operator subject to this subpart shall:
- (1) Cause the discharge into the atmosphere from an affected facility not more than 0.20 kg VOC/kg of coating solids applied as calculated on a weighted average basis for one calendar month; or
- (2) Demonstrate for each affected facility;
- (i) A 90 percent overall VOC emission reduction as calculated over a calendar month; or
- (ii) The percent overall VOC emission reduction specified in §60.443(b) as calculated over a calendar month.

§ 60.443 Compliance provisions.

(a) To determine compliance with §60.442 the owner or operator of the af-

fected facility shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures:

- (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24 or by the coating manufacturer's formulation data.
- (2) Compute the weighted average by the following equation:

$$G = \frac{\displaystyle\sum_{i=1}^{n} W_{oi} M_{ci}}{\displaystyle\sum_{i=1}^{n} W_{si} M_{ci}}$$

- (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with §60.442(a)(1).
- (b) To determine compliance with §60.442(a)(2), the owner or operator shall calculate the required overall VOC emission reduction according to the following equation:

$$R_{q} = \frac{G - 0.20}{G} \times 100$$

If $R_{\rm q}$ is less than or equal to 90 percent, then the required overall VOC emission reduction is $R_{\rm q}$. If $R_{\rm q}$ is greater than 90 percent, then the required overall VOC emission reduction is 90 percent.

(c) Where compliance with the emission limits specified in §60.442(a)(2) is achieved through the use of a solvent recovery system, the owner or operator shall determine the overall VOC emission reduction for a one calendar month period by the following equation:

$$R = \sum_{i=1}^{n} \frac{M_{r}}{W_{oi} M_{ci}} \times 100$$

If the R value is equal to or greater than the $R_{\rm q}$ value specified in paragraph (b) of this section, then compliance with 60.442(a)(2) is demonstrated.

(d) Where compliance with the emission limit specified in §60.442(a)(2) is achieved through the use of a solvent